Calipers

An industry standard in measuring tools

Vernier Caliper 532 Series — with fine adjustment

- Fine-adjustment aids slider positioning.
- Allows step measurement.

Technical Data

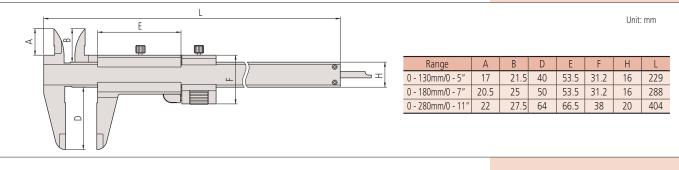
Accuracy: ±0.03mm (≤180mm), ±0.04mm (≤280mm) Graduation: 0.02mm, 0.02mm (.001") or .001" (1/128")

SPECIFICA	TIONS	Nitutoryo		80	Fine adjustme	53			
Metric					Metric/Inch	with metric/ir	nch double sc	ale	
Order No.	Range	Depth bar	Remarks		Order No.	Range	Depth bar	Inch graduation	Remarks
532-101	0 - 130mm				532-119	0 - 130mm			
532-102	0 - 180mm	Blade	with fine adjustment	-	532-120	0 - 180mm	Blade	.001"	with fine adjustment
532-103	0 - 280mm				532-121	0 - 280mm			

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DIMENSIONS



Vernier Caliper 531 Series — with thumb clamp

531-101

- The slider moves only when the spring-loaded Allows step measurement. thumb grip is depressed.

thumb grip

Technical Data

1/128"

.001″

Accuracy: Refer to the list of specifications. Graduation: 0.05mm, 0.05mm (1/128") or .001" (1/128") High accuracy type: 0.02mm or 0.02mm (.001")

High accuracy model

SPECIFICATIONS

Metric					
Order No.	Range	Accuracy	Depth bar	Remarks	
531-101	0 - 150mm	±0.05mm			
531-102	0 - 200mm	±0.05mm	Blade	_	
531-103	0 - 300mm	±0.08mm			

10 20 30 40 50 60 70 80 90 100 110 120 130 140 Metric/Inch _ with metric/inch double scale Order No. Accuracy Depth bar Inch graduation Range Remarks the spring-loaded with inch/mm 531-122 ±0.05mm 1/128" conversion label 0 - 150mm 531-128* .001″ ±0.03mm High accuracy model 531-108 1/128" ±0.05mm Blade 0 - 200mm 531-129* ±0.03mm .001″ High accuracy model

±0.08mm

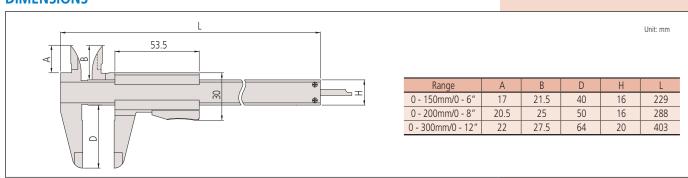
±0.04mm

ae (11) 55

0 - 300mm

* Graduation: 0.02mm





531-109

531-112*

* Graduation: 0.02mm

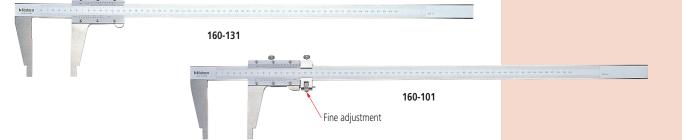


Calipers

An industry standard in measuring tools

Vernier Caliper SERIES 160 — with Nib Style Jaws and Fine Adjustment

- Inside and outside measurements can be read directly from the upper and lower vernier scales.
- The jaws have radiused measuring faces for accurate inside diameter (ID) measurement.
- With fine adjustment (except for 160-130/131/132/133/134).



SPECIFICATIONS

Metric with inside measurement vernier scale								
Order No.	Range*	Accuracy	Graduations	Remarks				
160-130	0 (20) - 450mm	±0.10mm						
160-131	0 (20) - 600mm	±0.10mm						
160-132	0 (20) - 1000mm	±0.15mm		without fine adjustment				
160-133	0 (20) - 1500mm	±0.22mm						
160-134	0 (20) - 2000mm	±0.28mm						

* (): Minimum dimension in ID measurement

Metric with inside measurement vernier scale								
Order No.	Range*	Accuracy	Graduations	Remarks				
160-127	0 (10) - 300mm	±0.04mm						
160-128	0 (20) - 450mm	±0.05mm	- 0.02mm -					
160-101	0 (20) - 600mm	±0.05mm						
160-104	0 (20) - 1000mm	±0.07mm		0.02000 —	—			
160-110	0 (20) - 1500mm	±0.1mm						
160-113	0 (20) - 2000mm	±0.12mm						

* (): Minimum dimension in ID measurement

Metric/Inch with metric/inch double scale							
Order No.	Range*	Accuracy	Graduations	Remarks			
160-150	0 (10) - 300mm	±0.04mm		+10mm/.394" to reading in inside measurement			
160-151	0 (20) - 450mm	±0.05mm	0.02mm/.001″				
160-153	0 (20) - 600mm	±0.05mm					
160-155	0 (20) - 1000mm	±0.07mm		+20mm/.787" to reading in inside measurement			
160-157	0 (20) - 1500mm	±0.1mm					
160-159	0 (20) - 2000mm	±0.12mm					

* (): Minimum dimension in ID measurement

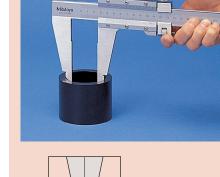
Inch with inside measurement vernier scale

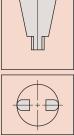
Order No.	Range*	Accuracy	Graduations	Remarks			
160-124	0 (.3") - 12"	±.0015"					
160-116	0 (.5") - 18"						
160-102	0 (.5") - 24"	±.002"	.001″				
160-105	0 (1") - 40"	±.003"		—			
160-111	0 (1") - 60"	±.004"		±.004"			
160-114	0 (1") - 80"	±.005"					
* (): Minimum dimension in ID measurement							

Inch/Metric with inch/metric double scale Range* Accuracy Order No. Graduations Remarks 160-125 0 (.3") - 12" ±.0015" +.3"/7.62mm to reading in inside measurement 160-119 0 (.5") - 18" ±.002" +.5"/12.7mm to reading in inside measurement 160-103 0 (.5") - 24" ±.002" .001"/0.02mm ±.003" 160-106 0 (1") - 40" 0 (1") - 60" 160-112 ±.004" +1"/25.4mm to reading in inside measurement 160-115 0 (1") - 80" ±.005

* (): Minimum dimension in ID measurement

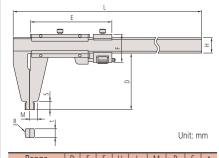






Radiused jaws for accurate ID measurement

DIMENSIONS



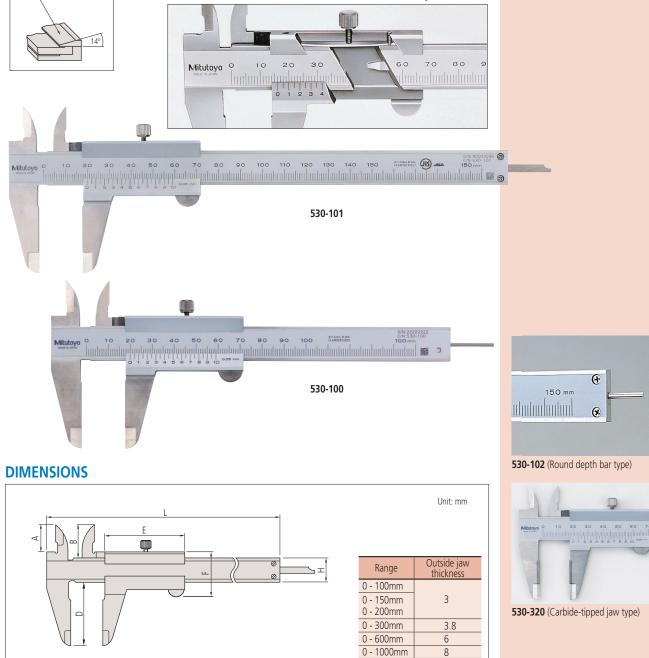
Range	D	E	F	Н	L	M	R	S	t
0-300mm/0-12"	75	103	38	20	445	10	R 5	12	3.8
0-450mm*	100	89	—	25	630	14.8	R10	18	6
0-450mm/0-18"	100	112	51	25	030	14.0	R10	10	6
0-600mm*	100	89	—	25	780	14.8	R10	18	6
0-600mm/0-24"	100	112	51	25	/00	14.0	R10	10	6
0-1000mm*	140	111	-	32	1240	17	R10	24	8
0-1000mm/0-40"	140	150	62.5	52 12	1240	17	R10	24	8
0-1500mm*	180	129	—	32	1800	19	R10	30	8
0-1500mm/0-60"	100	170	62.5	52	1800	19	R10	50	8
0-2000mm*	100	129	—	40	2300	22	R10	30	12 12
0-2000mm/0-80"	180	180	78	40	2300	23	R10	30	12
*: without fine adjustment									

Calipers

An industry standard in measuring tools

Vernier Caliper 530 Series — Standard model

- Plain and basic design.
- Stepped graduation face prevents dust ingress between the main scale and slider.
- The small vernier face angle (14°) provides easy reading.
- Can measure outside and inside dimensions, depth, and steps.
- Carbide-tipped jaw calipers are optimal for rough finished parts, castings, grinding stones, etc.
- Decimal and fractional graduated scales (metric/inch and inch models only).





А

17

17

22

38

50

20.5

Range

0 - 100mm

0 - 150mm

0 - 200mm

0 - 300mm

0 - 600mm

0 - 1000mm

В

21.5

21.5

27.5

25

47

60

* Code No.530-100 and No.530-102 incorporate a round depth bar (ø1.9mm). The depth bar shown in the illustration above is a different type.

D

40

40

50

64

90

130

D-11

Е

53.5

53.5

53.5

66.5

89

111

F

30

30

30

36

50

61

L

182

229

288

404

780

1240

Н

16

16

16

20

25

Technical Data

Accuracy: ±0.05mm (≤200mm), ±0.08mm (≤300mm) ±0.10mm (≤600mm), ±0.15mm (≤1000mm) High accuracy type: ±0.03mm (≤200mm), ±0.04mm (≤300mm) Graduation: 0.05mm, 0.05mm (1/128") or .001" (1/128")

High accuracy type: 0.02mm or 0.02mm (.001")

SPECIFICATIONS

Metric					
Order No.	Range	Depth bar	Remarks		
530-100	0 - 100mm	ø1.9mm rod	—		
530-102		91.91111100	—		
530-101			—		
530-320	0 - 150mm		Carbide-tipped jaws for outside measurement		
530-335			Carbide-tipped jaws for outside and inside measurement		
530-122*			High accuracy model: ±0.03mm		
530-108		Blade	—		
530-321	0 - 200mm	biaue	Carbide-tipped jaws for outside measurement		
530-123*			High accuracy model: ±0.03mm		
530-109			—		
530-322	0 - 300mm		Carbide-tipped jaws for outside measurement		
530-124*		-	High accuracy model: ±0.04mm		
530-501	0 - 600mm				
530-502	0 - 1000mm		_		
* C					

* Graduation: 0.02mm

Metric/Inch with metric/inch double scale

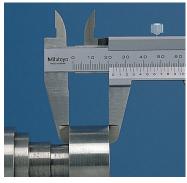
Ord	der No.	Range	Depth bar	Inch graduation	Remarks
530	0-104			1/128"	—
530	0-316	0 - 150mm	Blade	1/128"	Clamping screw below the slider
530	0-312*			.001 "	High accuracy model: ±0.03mm
530	0-114	0 - 200mm		1/128"	—
530	0-118*			.001 "	High accuracy model: ±0.03mm
530	0-115			1/128"	—
530	0-119*	0 - 30011111		.001 "	High accuracy model: ±0.04mm

* Graduation: 0.02mm

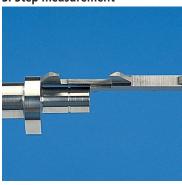
Inch with inch/inch double scale								
Order No.	Range	Depth bar	Inch graduation	Remarks				
530-105	0 - 6"	Blade	1/128"					
530-116	0 - 8"	DIdUe		_				

Measurement Applications

1. Outside measurement



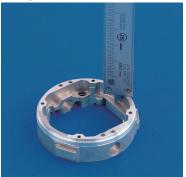
3. Step measurement



2. Inside measurement



4. Depth measurement



Mitutoyo